

ABSTRACT

The invention is a heat curable extruded adhesive laminate system for producing
5 collapsible tanks. The laminate is a composite of a fabric; an extruded linear hydroxyl
adhesive having an uretdione that serves as a latent thermally activated curing component,
and a high crystallinity thermoplastic polyurethane. In the system, panels cut from the
adhesive laminate are assembled and seamed in a compression press operating at about 260
°F to about 350 °F. The bonding process takes about 20–45 minutes, which causes the latent
10 thermally activated curing component to cure the adhesive. Following compression heating
in the press, the resulting seams have a strength that exceeds the minimum acceptable
performance of 25 lbs/in, after being immersed in water and/or fuel at 160°F for six weeks.